DOCKET NO.: 120 06739 US

**CLIENT NO.: HWEL01-06739** 

Systomer No.: 00128

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re application of:

Charles Q. Zhan et al.

Application No.

10/717,086

Filed

November 19, 2003

For

APPARATUS AND METHOD FOR IDENTIFYING

**PATENT** 

**DEFECTIVE VALVES** 

Art Unit

2863

Examiner

Xiuqin Sun

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, Applicant submits this statement. This submittal is made in accordance with 37 C.F.R. §§ 1.97 and 1.98 and § 609 of the Manual of Patent Examining Procedure. The references herein are listed below and on the attached Forms PTO/SB/08A & B. Copies of the listed publications are submitted herewith.

U.S. Patent No.

**Inventor** 

Date

5,262,958

Chui et al.

November 16, 1993

04/24/2006 EAYALEW1 00000005 10717086

02 FC:1806

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DOCKET No.: 120 06739 US APPLICATION No.: 10/717,086

PATENT

**Publications** 

Simon G. Braun, "The Signature Analysis of Sonic Bearing Vibrations", IEEE Transactions

on Sonics and Ultrasonics, Vol. SU-27, No. 6, November 1980, pp. 317-328.

Y. Gao et al., "Wavelet-Based Pressure Analysis for Hydraulic Pump Health Diagnosis",

Transactions of the ASAE, Vol. 46(4), pp. 969-976.

Horch A, "A Simple Method for Detection of Stiction In Control Valves", Control

Engineering Practice, Pergamon Press, Oxford, GB, Vol. 7, 1999, pp. 1221-1231.

Applicant hereby expressly reserves the right to swear behind the effective dates of any of

the above Patents and to question the relevance and materiality of the Patents and Publications listed

herein, in whole, in part, or in combination, subsequent to filing this Information Disclosure

Statement.

This Information Disclosure Statement is being transmitted after the mailing date of the first

Office Action on the merits. Therefore, Applicant encloses a check in the amount of \$180.00 for the

Information Disclosure Statement filing fee.

Respectfully submitted,

Registration No. 39,308

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PTO/SB/08A (08-03)

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| <b>INFORMATION</b> | DISCL | <b>OSURE</b> |
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|------------------------|-------------------|--|--|--|
| Application Number     | 10/717,086        |  |  |  |
| Filing Date            | November 19, 2003 |  |  |  |
| First Named Inventor   | Charles Q. Zhan   |  |  |  |
| Art Unit               | 2863              |  |  |  |
| Examiner Name          | Xiuqin Sun        |  |  |  |
| Attorney Docket Number | 120 06739US       |  |  |  |

| <i>&amp;</i> | U. S. PATENT DOCUMENTS   |  |                                |  |   |  |  |  |
|--------------|--------------------------|--|--------------------------------|--|---|--|--|--|
| ditials*     | Cite<br>No. <sup>1</sup> | Document Number  Number-Kind Code <sup>2 (# known)</sup> | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |  |  |  |
|              | AA                       | <sup>US-</sup> 5,262,958                                 | 11/16/1993                     | Chui et al.  |   |  |  |  |
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| FOREIGN PATENT DOCUMENTS |              |   |                     |  |   |   |
|--------------------------|--------------|---|---------------------|--|---|---|
|                          | Cite<br>No.1 | Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> ) | Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | П |
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| Examiner  | Date       |  |
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PTO/SB/08B (08-03)

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|-----------------------------------|---------|--|-----------------|------------------------|-------------------|
|                                   |         |  |                 | Application Number     | 10/717,086        |
| INFO                              | RMATION | DIS  | CLOSURE         | Filing Date            | November 19, 2003 |
| STATEMENT BY APPLICANT            |         | First Named Inventor   | Charles Q. Zhan |                        |                   |
| <i>(</i> 1)                       |         |  |                 | Art Unit               | 2863              |
| (Use as many sheets as necessary) |         | Examiner Name  | Xiuqin Sun      |                        |                   |
| Sheet                             | 2       | of   | 2               | Attorney Docket Number | I20 06739US       |

| Examiner  | Cite | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of  |                |
|-----------|------|---|----------------|
| Initials* | No.1 | the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.      | T <sup>2</sup> |
|           | ВА   | Simon G. Braun, "The Signature Analysis of Sonic Bearing Vibrations", IEEE Transactions on Sonics and Ultrasonics, Vol. SU-27, No. 6, November 1980, pp. 317-328. |                |
|           | ВВ   | Y. Gao et al., "Wavelet-Based Pressure Analysis for Hydraulic Pump Health Diagnosis", Transactions of the ASAE, Vol. 46(4), pp. 969-976.                          |                |
|           | вс   | Horch A, "A Simple Method for Detection of Stiction In Control Valves", Control Engineering Practice, Pergamon Press, Oxford, GB, Vol. 7, 1999, pp. 1221-1231.    |                |
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| Examiner  | Date       |  |
| Signature | Considered |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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